## (19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 13 October 2005 (13.10.2005)

**PCT** 

## (10) International Publication Number WO 2005/095340 A1

(51) International Patent Classification<sup>7</sup>: C07D 207/24

(21) International Application Number:

PCT/EP2005/001750

(22) International Filing Date: 19 February 2005 (19.02.2005)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 10 2004 010 943.5 3 March 2004 (03.03.2004) DE

(71) Applicant (for all designated States except US): DE-GUSSA AG [DE/DE]; Bennigsenplatz 1, 40474 Düsseldorf (DE).

(72) Inventors; and

(75) Inventors/Applicants (for US only): ROSSEN, Kai [DE/DE]; Händelstrasse 3B, 63457 Hanau (DE). HOFF-MANN, Rolf [DE/DE]; Am Galgenberg 29, 63546 Hammersbach (DE). SARICH, Martin [DE/DE]; Holunderweg 2, 63755 Alzenau (DE).

(74) Common Representative: DEGUSSA AG; Intellectual Property Management, Patente und Marken, Standort Hanau, Postfach 13 45, 63403 Hanau (DE).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR).

## **Declaration under Rule 4.17:**

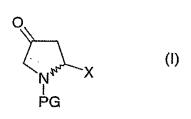
— of inventorship (Rule 4.17(iv)) for US only

## Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: PROCESS FOR PREPARING N-PROTECTED 4-KETOPROLINE DERIVATIVES



(57) Abstract: The present invention is concerned with a process for preparing compounds of the general formula (I). These compounds can preferably be used to prepare bioactive agents. The reaction of the invention starts from the corresponding hydroxy compounds which are oxidized, with Ru catalysis, in a one-phase aqueous system.